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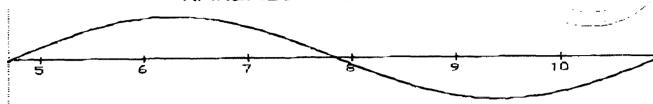
/ NOTMAN L. BALLATA

337 West 76th St

NYC

DET \$ 1:999 REPEIVED

RAREFIED MEDIA DESIGN



TO! SUSAN JENSEN, CORH OFFICE OF COMPLIANCE

FROM: NORMAN L. BALLARD

RE Enclosed Variance Application Submittal Clarification - Walt Disney Theatrical Project

This is to clarify the enclosed submittal which includes a new variance application for the above client to utilize a version of my projector, as described herein, in a new musical production.

Also included in the submittal is a redundant submittal listing the same production in an Light Show Notification under my current variance. I have taken this approach because the musical production is scheduled to begin public performances on November 12, with full set up and rehearsal prior to that in early November. Since I myself and/or an assistant paid by me will be involved in operating the described laser effect in the early work on the production, and the client will not make final payment and assume ownership until after the production is under way. I had intended the LSN under my variance to be an interim step to assure compliance in the event that the issuance of an approved variance to my client cannot be acheived by around the beginning of November and to therefore allow preliminary installation work to go on in the meantime. I hope this an appropriate approach, I will give you a followup call for your advice. Thank you for your consideration of this matter

Sincerely,

Norman L. Ballard

RAREFIED MEDIA PRODUCTIONS

Laser Production Services

991-4931

17345 29-1 99A229-00

PUBLIC HEALTH SERVICE

APPLICATION FOR A VARIANCE FROM 21 CFR 1040.11(c) FOR A LASER LIGHT SHOW, DISPLAY,

ı	Aura Appenie	itelio iki2°			
-	Lymatical Hats	Appen 11	1-2KX		
	POCKET NUMBER				

DEPARATMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION OR DEVICE NOTE: No laser light show, projection system, or device may vary from compliance with 21 CFR 1090 (11c) in design or ose without the approval of this application in accordance with 21 CFR 1010.4. INSTRUCTIONS 3. Mail your application to the Dockers Managentian financh (PMA-305), Look and I Check all implicable hoses and repe or being the requested Drug Administration, Room # 62, SMA(Tishers Lanc. Rockoffs, MD 20827 anormation. a Enter Document Nominer is asserted. Submit an original and four (4) copies 1 NAME OF COMPANY AIDA BROADWAY PRODUCTION PRODUCTIONS WALT DISNEY THEATRICAL 2 ADDRESS OF COMPANY (Include ZIP CLIPIT) (ILP D. Biocommit. include a small affect with constant) 1450 BROADWAY SUITE 300 NEW YORK S DATE OF SUBMISSION 3 NAME AND TITLE OF RESPONSIBLE PERSON 4 TELEPHONE NO (In Int. min . mb) BALLARD. EFFECTS is The applicant requests the variance to be in effect for a period of ______ years from the date of issue PRODUCT DESCRIPTION AND USE 7 à LIST NAME ANDIOR MODEL NUMBERISI FOR THE LASER LIGHT SHOW(S) AND PROJECTORISI BROADWAY PRODUCTION SCENIC ELEMENT FRODUCT IS INTENDED TO BE USED AT ANY ONE LOCATION D PRODUCT FOR WHICH A VARIANCE IS REQUESTED MORE THAN 15 DAYS A LASER DISPLAY OFVICE MORE THAN 3 BUT NOT MORE THAN 15 DAYS A PROJECTOR FOR A LASER LIGHT SHOW A LASER LIGHT SHOW LESS THAN 5 DAYS & OTHER CHANGE LASER SCENIC ELEMENT g TOUR IS INTENDED TO RUN FOR E PROJECTORS ARE INTENDED FOR SALE, LEASE, OR LOAN TO OTHER MORE THAN 5 MONTHS LASER WENT SHOW PRODUCERS C PRODUCT IS INTENDED FOR USE IN A LESS THAN I MONTH PLANETABILIA OR OTHER DOME PROJECTION STRUCTURE NOT APPLICABLE (...... THEATER OTHER (3/55//-) _______ HOTELIMOTEL BALLROOM OR MEETING ROOM STORE DISPLATS n PRODUCT UTILIZES THE FOLLOWING LASER EFFECTS FRONT SCREEN PROJECTIONS TRADE SHOW OR CONVENTION REAR SCREEN PROJECTIONS DISCOTHEQUE OR MIGHT CLUB HOLOGRAPHIC DISPLATS PAVILION MULTIPLE REFLECTION DIFFRACTION EFFECTS INDOOR ARENA AUDIENCE SCANNING | How we hade a warrang and served de une restricted areas } OUTDOOR ARENA REFLECTIONS FROM STATIONARY MIRRORS OR MIRRORED SURFACES MUSEUM (Beam Martices) OUTPOOR UNENCLOSED AREA 5 STATIONARY IRRADIATION OF ROTATING MIRROR BALLS, ETC. OTHER (VANIA) SCANNING IRRADIATION OF ROTATING MIRROR BALLS, ETC. PRODUCT IS INTENDED TO BE USED FIBER OPTIC PROJECTIONS T AT ONLY ONE WIND LOCATION FOG SMOKE OR OTHER SCATTERING ENHANCEMENT EFFECTS AT A VARIETY OF HOURS LOCATIONS OTHER (No. OTHER (NAME) LASER RADIATION LEVELS LASER MEDIUM 147, 176 No con 1 WAVE LENGTHS (nm) PEAK POWER HILLION 400 NM - 673 NM ARGON/KRYPION 10 WATTS 8 IF ANY LASER RADIATION IS PULSED OF SCANNED GIVE THE PULSE DURATION AND RATE AND SCANNING FREQUENCY AND AMPLITUDE N/A 10 REASON FOR REQUESTING VARIANCE 🗴 COMPLIANCE WITH THE LIMITS OF 2, CFR 1949 11(c) WOULD RESTRICT THE INTENDED USE OF THE PRODUCT BECAUSE COMPLIANCE WOULD LIMIT THE OUTPUT POWER IN THE EXTENT THAT THE DESIRED EFFECTS WOULD NOT BE SUFFICIENTLY VISIBLE OTHER OR ADDITIONAL EXPLANATION AND THE

ï	8.	NNE	R IN WHICH IT IS PROPOSED TO DEVIATE FROM THE REQUIREMENTS OF THE APPLICABLE STANDARD S PROPOSED TO DEVIATE FROM THE PROVISIONS OF 21 CFR 1040.13(c) IN THAT THE ACCESSIBLE EMISSION LEVEL WOULD EXCEED THE
		ACC	CESSIBLE EMISSION LIMITS SPECIFIED IN 21 CFR 1040.17(c) S PROPOSED TO DEVIATE FROM THE PROVISION OF 21 CFR 1040.17(c) AS FOLLOWS
12	۰	N. T	AGES TO BE DERIVED FROM SUCH DEVIATION
12	Š	LAS EXC	REES IGHT SHOWS AND DISPLAYS ARE ACCEPTED POPULAR MEDIA IN ENTERTAINMENT AND THE ARTS. USE OF POWER LEVELS IN RESS OF THE LIMITS IMPOSED BY 21 CFR 1040 11(c) IS NECESSARY TO ACHIEVE THE REQUIRED EFFECTS IN THESE MEDIA HER OR ADDITIONAL ADVANTAGES (GESCRIDE WIND GADININ)
13			NTHE ALTERNATE MEANS OF RADIATION PROTECTION TO BE PROVIDED (Check as many boxes as apply in item 14 "Remarks." justify any boxes and using additional sheets as necessary. State any other means of radiation protection that will be used (
	a	X	ALL LASER PRODUCTS, SYSTEMS, SHOWS, AND PROJECTORS WILL BE CERTIFIED TO COMPLY WITH 21 CFR 1040.10 AND THE CONDI-
	-	-	TIONS OF THIS VARIANCE AND WILL BE REPORTED AS REQUIRED BY 21 CFR 1002 10 AND 1002.12 USING THE REPORTING GUIDES PROVIDED FOR SUCH PURPOSE. THESE ACTIONS WILL BE ACCOMPLISHED PRIOR TO ANY INTRODUCTION INTO COMMERCE
	Þ	3	EFFECTS NOT SPECIFICALLY INDICATED IN THIS VARIANCE APPLICATION WILL NOT BE PERFORMED. NO OTHER EFFECTS WILL BE ADDED UNTIL AN AMENDMENT TO THE VARIANCE HAS BEEN OBTAINED AND THE REQUIRED REPORTS OR SUPPLEMENTS, AS APPLICABLE, HAVE BEEN SUBMITTED.
	c	Z	SCANNING, PROJECTION, OR REFLECTION OF LASER AND COLLATERAL RADIATION (LIGHT SHOW RADIATION) INTO AUDIENCE OR OTHER ACCESSIBLE UNCONTROLLED AREAS WILL NOT BE PERMITTED EXCEPT FOR DIFFUSE REFLECTIONS PRODUCED BY THE ATMOSPHERE ADDED ATMOSPHERIC SCATTERING MEDIA, AND TARGET SCREENS
	٥.	32	LASER RADIATION LEVELS IN EXCESS OF THE LIMITS OF CLASS I WILL NOT BE PERMITTED AT ANY POINT LESS THAN 30 METERS ABOVE ANY SURFACE UPON WHICH PERSONS OTHER THAN OPERATORS PERFORMERS, OR EMPLOYEES ARE PERMITTED TO STAND OR 25 METERS BELOW OR IN LATERAL SEPARATION FROM ANY PLACE WHERE SUCH PERSONS ARE PERMITTED TO BE, OPERATORS, PERFORMERS, AND EMPLOYEES WILL NOT BE REQUIRED OR ALLOWED TO VIEW RADIATION ABOVE THE LIMITS OF CLASS I OR BE EXPOSED TO RADIATION ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040 11(c)
	в	23	ANY PRODUCT WHICH RELIES ON SCANNING TO MEET ACCESS, EXPOSURE, OR PRODUCT CLASS LIMITS WILL INCORPORATE A SCANNING SAFEGUARD SYSTEM WHICH DIRECTLY SENSES SCANNER MOTION AND WHICH WILL REACT FAST ENOUGH TO PRECLUDE EXCEEDING THE APPLICABLE LIMIT.
	t	X	ALL LASER LIGHT SHOWS SHALL BE UNDER THE DIRECT AND PERSONAL CONTROL OF TRAINED, COMPETENT OPERATOR(S) THE OPERATOR(S) WILL.
			(1) immediately terminate the emmission of light show radiation in the event of any unsafe condition
			(2) BE LOCATED WHERE ALL BEAM PATHS CAN BE DIRECTLY OBSERVED AT ALL TIMES: AND
			13) BE AN EMPLOYEE OF THE VARIANCE HOLDER WHO WILL BE RESPONSIBLE FOR THE TRAINING AND CONDUCT OF THE OPERATOR
	g	X	THE MAXIMUM LASER PROJECTOR OUTPUT POWER WILL NOT EXCEED THE LEVEL REQUIRED TO OBTAIN THE INTENDED EFFECTS
	n	X	THE PROJECTION SYSTEM (I.E., THE PROJECTOR AND ALL OTHER COMPONENTS USED TO PRODUCE THE LIGHTING EFFECTS) WILL BE SECURELY MOUNTED OR IMMOBILIZED TO PREVENT UNINTENDED MOVEMENT OR MISALIGNMENT BEAM LIMITERS WILL BE PROVIDED AS AN INHERENT PART OF THE SYSTEM DESIGN TO PREVENT OVERFILLING OF SCREENS, BEAM STOPS, TARGETS, ETC.
	1	3	LASER PROJECTORS WILL NOT BE DELIVERED TO ANY OTHER PARTY UNDER AN AGREEMENT OF SALE, LEASE, OR LOAN UNLESS AND UNTIL THE RECIPIENT DEMONSTRATES THAT THEY HAVE A VARIANCE IN EFFECT AT THE TIME OF DELIVERY THAT PERMITS THEM TO PRODUCE LASER LIGHT SHOWS INCORPORATING SUCH PROJECTOR.
	3 -	28	IN ADDITION TO THE REQUIREMENTS OF 21 CFR 1040 10(h), THE MANUFACTURER OF LASER PROJECTORS/STSTEMS WILL PROVIDE TO PARTIES WHO PURCHASE, LEASE, OR BORROW THE EQUIPMENT, ADEQUATE USER'S INSTRUCTIONS FOR SAFE INSTALLATION AND OPERATION AND WHICH EXPLAIN THE RESPONSIBILITY OF THE RECIPIENT AS AN INDEPENDENT LIGHT SHOW MANUFACTURER TO SUBMIT THE REQUIRED REPORTS AND APPLY FOR AND OBTAIN A VARIANCE FROM CORM PRIOR TO INTRODUCTION INTO COMMERCE OF ANY LASER LIGHT SHOWS.
	k		THE REQUIREMENTS OF 21 CFR 1002.30(8)(1) AND (2) WILL BE ACCOMPLISHED THROUGH THE USE OF WRITTEN PROCEDURES FOR SETUP ALIGNMENT, TESTING, AND PERFORMANCE OF EACH SHOW. THESE PROCEDURES WILL BE IN SUFFICIENT DETAIL TO ENSURE COMPLIANCE WITH 21 CFR 1040.10, THE CONDITIONS OF THIS VARIANCE, AND THE CONTROL OF ACCESS TO RADIATION AREAS USING THE PROCEDURES DESCRIBED IN THE ANSI 2138.1 STANDARD FOR THE SAFE USE OF LASERS (AMERICAN NATIONAL STANDARDS INSTITUTE 1430 BROADWAY, NEW YORK, NY 10018) OR ANY OTHER EQUIVALENT USER CONSENSUS STANDARD AND, WHERE APPLICABLE, STATE OR LOCAL REQUIREMENTS. LASER RADIATION AREAS WHICH CAN CONTAIN RADIATION LÉVELS ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.11(c), WILL BE CLEARLY IDENTIFIED BY THE POSTING OF WARNING SIGNS AND/OR RESTRICTING ACCESS THROUGH PHYSICAL MEANS (SUCH AS PRESSURE SWITCHES, PHOTOCELLS, BARRIERS, GUARDS, ETC.). THESE REQUIREMENTS APPLY TO TEMPORARY AREAS (SUCH AS DURING SETUP AND ALIGNMENT PROCEDURES) AND TO FINAL OR PERMANENT AREAS THE VARIANCE HOLDER WILL RETAIN THE RECORDS OF THESE PROCEDURES AND THE RESULTS OF ALL TESTS AS REQUIRED BY 21 CFR 100231. A COPY OF THE VARIANCE APPLICATION, THE APPROVAL LETTER, CURRENT PROCEDURES, AND RECORDS RELATING TO EACH PARTICULAR SHOW WILL BE WITH THE OPERATOR OR OTHER RESPONSIBLE INDIVIDUAL AND WILL BE MADE AVAILABLE FOR INSPECTION BY FDA AND OTHER RESPONSI-

BLE AUTHORITIES

- ADVANCE WRITTEN NOTIFICATION WILL BE MADE AS EARLY AS POSSIBLE TO APPROPRIATE FEDERAL STATE, AND LOCAL AUTHORITIES PROVIDING SHOW ITINERARY WITH DATES AND LOCATIONS CLEARLY AND COMPLETELY IDENTIFIED AND A BASIC DESCRIPTION OF PROPOSED EFFECTS INCLUDING A STATEMENT OF THE MAXIMUM POWER OUTPUT INTENDED SUCH NOTIFICATIONS WILL BE MADE BUT NOT NECESSARILY BE LIMITED. TO:
 - (1) THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH, OFFICE OF COMPLIANCE (HFZ-312) 8757 GEORGIA AVE. SILVER SPRING MD 20910. PROVIDING THE INITIAL AND CLOSING DATES FOR FIXED INSTALLATIONS AND THE ITINERARY FOR MOBILE SHOWS IN ADDITION, UNLESS ALL ASPECTS OF EACH SHOW HAVE BEEN REPORTED AND THE ACCESSION NUMBERS CLEARLY REFERENCED EACH NOTICE WILL INCLUDE DETAILED DESCRIPTIONS OF EACH SHOW AND A LISTING OF ALL EFFECTS TO BE PERFORMED IN SUFFICIENT DETAIL TO CONFIRM COMPLIANCE WITH THE REGULATIONS AND THIS VARIANCE
 - 12) THE FEDERAL AVIATION ADMINISTRATION (FAA) FOR ANY PROJECTIONS INTO OPEN AIRSPACE AT ANY TIME (I E . INCLUDING SET UP ALIGNMENT REHEARSALS, PERFORMANCES, ETC.) IF THE FAA OBJECTS TO ANY LASER EFFECTS. THE OBJECTIONS WILL BE RE SOLVED AND ANY CONDITIONS REQUESTED BY FAA WILL BE ADHERED TO IF THESE CONDITIONS CAN NOT BE MET, THE OBJECTIONABLE EFFECTS WILL BE DELETED FROM THE SHOW
 - (3) STATE AND LOCAL RADIATION CONTROL OFFICES/AGENCIES FOR ALL SHOWS TO BE PERFORMED WITHIN THEIR JURISDICTIONS ALL REQUIREMENTS OF STATE AND LOCAL LAW WILL BE SATISFIED AND ANY OBJECTIONS RAISED BY LOCAL AUTHORITIES WILL BE RE SOLVED OR THE EFFECTS DELETED (LISTS OF FEDERAL AND STATE OFFICES ARE AVAILABLE FROM THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH UPON REQUEST.)

14 REMARKS

WALT DISNEY THEATRICAL PRODUCTIONS. LTD PRODUCES BROADWAY SHOWS AND REQUESTS THIS VARIANCE FOR THE PURPOSE OF INCORPORATING LASER VISUAL EFFECTS INTO CERTAIN PRODUCTIONS, PERFORMANCE OF SUCH EFFECTS WILL UTILIZE LASER DISPLAY EQUIPMENT PREVIOUSLY FILED UNDER MANUFACTURER REPORT BY ONE OR MORE OF THE FOLLOWING MANUFACTURERS:

LASER MEDIA, INC.
IMAGES AND ILLUMINATIONS
IMAGE ENGINEERING CORP.
LASERIUM
PRECISION PROJECTION SYSTEMS
RAREFIED MEDIA. PRODUCTIONS
LASER SYSTEMS DESIGN
LASER PRODUCTION NETWORK

Information on specific effects proposed to be utilized to follow as a Show report including docket number reference for projectors employed.

CERTIFICATION

CERTIFY that all of the above information and statements are true, complete, and correct to the best of my knowledge and acknowledge that my variance application may be denied or my variance may be revoked it this application is found to be false, misteading, or incorrect in any material way I have submitted and will submit all reports required by 21 CFR 1002-10 and 1002-12 on the laser equipment and show(s). I further understand that I may be required by regulation or by the Director. Center for Devices and Radiological Health, to supply such other information as may be necessary to disable and action this application.

15 SIGNATURE

16 NAME (Type or Print)

17. TITL

NORMAN L. BALLARD

SPECIAL EFFECTS TECHNICIAL